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(57) Abstract: A method of producing a linear di-substituted pyridinium compound of the formula $NC_3R_4-R'-[Q^+NC_3R_4-R']_n-X$ using a solid support, wherein n is an integer, R is selected from hydrogen, hydroxyl, and substituted or unsubstituted alkyl, alkoxy, aryl, alkaryl, aralkyl, and alkenyl groups, R' is a first linking group, and Q- and X are, respectively, a counter ion and a group which can react with the solid support.